



WATSON SCREENS *for the HOME*

WATSON
SCREENS



Watson Screens

OF BRONZE, STEEL AND OTHER METALS AND WOOD

FOR

*all windows, doors
and porches*

TO KEEP



CATALOG NO. 31

ALLSEAL WEATHERSTRIP CO.

4311 Ravenswood Avenue
CHICAGO, ILLINOIS
PHONE GRACELAND 3211

WATSON MANUFACTURING CO.

JAMESTOWN, N. Y.

THE HOME OF QUALITY FOR MORE THAN FORTY YEARS

Factory and Executive Offices
JAMESTOWN · NEW YORK
Represented in all Leading Cities



FOR more than forty years the Watson Manufacturing Company has specialized on screens. . . . As the result of years of thought and experiment, devoted to one product, we have originated and developed most of the present day improvements in screen design and construction. Regardless of the constant increase in the actual worth of our screens improved methods of manufacture have kept our prices reasonable. . . . Excellence of design, the best materials, moderate prices, fair treatment of customers and intelligent service have enabled us to outgrow the modest building which housed our factory in 1890 to the present modern plant shown below it.

WATSON SCREENS

TO PROTECT YOUR HEALTH AND COMFORT

It is hardly necessary to remind you of the danger of the house fly as a carrier of disease germs. Doctors, better qualified than we, have convinced you. Nor need we remind you that the mosquito, in addition to his annoying and painful habits, also spreads disease. Aside from this habit of carrying germs the fly and mosquito interfere with your comfort. They annoy you. That alone is sufficient reason to keep them outside.

From the housewife's standpoint the fly is an unclean guest as well as an unwelcome one. He ruins interior finish and expensive decorations. Flies are persistent; leave them the slightest opening and they push their way in and make free with your furnishings.

Screens which keep "*the fly outside*" are necessary to insure your comfort, guard your health, and protect your property.

Screens allow the free ventilation so necessary for healthful and restful sleep and give full protection from predatory and tuneless mosquitoes, and other night flying insects.

Although screens are almost always furnished completely finished we strongly advise their being ordered and installed before the interior finishing and decorating is completed; the screen finishing to be done by the same workmen who do the other finishing and decorating, thus assuring a perfect match and the finish unmarred in transportation or by handling. Otherwise, scraps of food left by workmen, fresh paint, glue sizing and paste will attract flies and damage the interior finish before you occupy the house.

Because screens are as essential to your comfort as your heating system you should have your architect make his drawings to provide for them. We will be glad to cooperate with him to secure the best results and the effect desired. It will prove more satisfactory to you and may save unnecessary installation expense.

If your house is completed in the fall your order should be placed then for spring delivery, so the screens may be ready well in advance of the spring rush season which taxes the capacity of our factory. Payment is not required until the contract is completed to your satisfaction.



*Residence of
E. L. FORD
Grosse Pointe, Mich.*

SCREENING FOR BEAUTY, CONVENIENCE AND PERMANENCE

THAT window screens can add to the beauty of a home may seem a novel idea to you unless you are familiar with Watson metal frame screens. The narrow frame is a nice bit of metalcraft. In spite of its slenderness you find, under test, it is rigid and sturdy.

Its inconspicuous refinement enhances the appearance of your window. Its neat frame allows the largest practicable opening for ventilation and hides, to the smallest possible degree, the frame which surrounds the glass. You will show your Watson screens with pride as one of the features of your new home.

From the standpoint of the housewife they are a joy—slender, smooth, no projections to pocket dust, easily cleaned with a quick sweep of a cloth.

Each Watson screen is custom built, exactly tailored to fit the opening for which it is intended. No fly can find a way through, around or under a Watson screen.

Bronze Frame screens do not rust. They do not need refinishing. If outside screens are left unfinished nature puts on her own coating, a natural statuary bronze, a finish that mellows and improves with age. Inside screens are finished to match interior trim. With upkeep eliminated they are an investment in economy and satisfaction.

Many of our metal screens installed over twenty-five years ago still give satisfactory service to their owners. Through our constant striving to better our best we offer you today, at prices low in comparison, screens of better materials, finer appearance and sturdier construction than ever before. In this changing age that is our claim of permanence.

The manufacturer of worth-while merchandise realizes that it is easier to make extravagant claims than to make goods which fulfill those claims. The printing press is available to all; knowledge, experience, facilities and resources are not. And ideals of quality and service vary.



*Residence of
S. HALLOCK DUPONT
Wilmington, Del.*

WHAT WATSON'S FREE CONSULTING SERVICE OFFERS YOU



In building homes more attention is paid to architectural beauty than ever before. An architect depends largely on the shapes and sizes of windows and doors to give expression to a house.

The Watson representative will welcome a chance to consult with you and your architect, make a survey of your home, recommend the best method of screening it and submit an estimate of the cost. Our advisory service is without obligation on your part. All we ask is an opportunity to tell you about Watson screens and Watson service. That done

we leave the choice of screens to your good judgment.

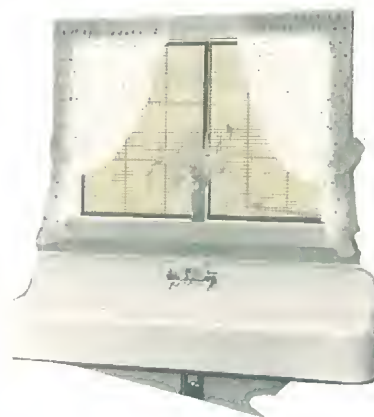
Architecturally, and for your convenience, different windows require different types of screens. As we make both frame and roll screens of all suitable materials our representatives feel free to recommend the type best suited to each window and door.

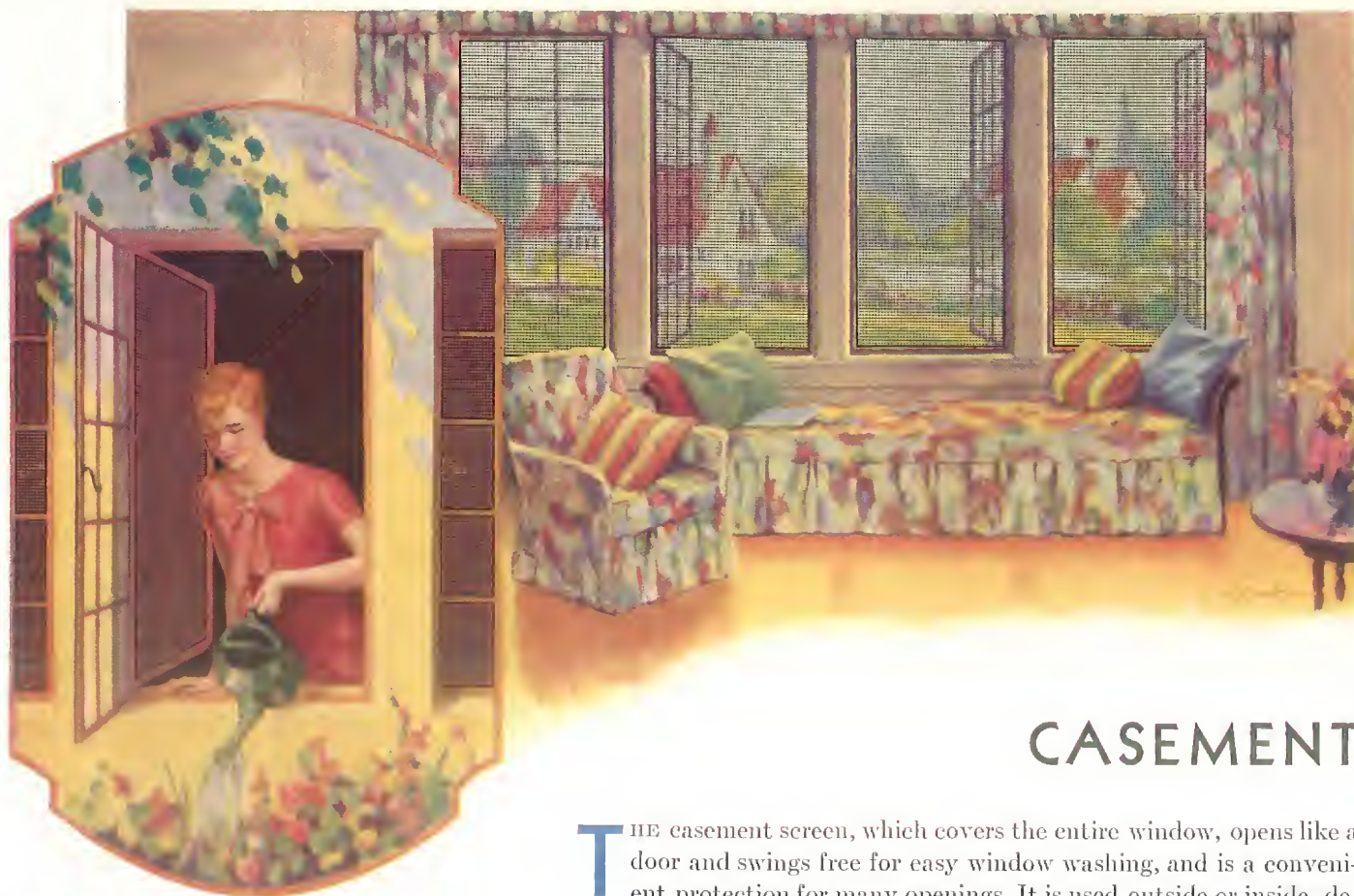


After the screens needed are decided upon the Watson representative takes full responsibility; from making accurate measurements of every window, door and porch to the proper fitting of every screen in your home.

From initial survey to final installation the Watson representative desires to furnish screens that beautify your home; protect you and your family; are most convenient for you to use; and banish screen troubles for the rest of your life. He has a screen for every purpose and can screen your house from cellar to attic. He has screened many fine homes.

Based on this experience he gives each window and the conditions which surround it undivided consideration and recommends the most suitable type of screen. He may suggest different types of screens for windows apparently identical but when he gives his reasons you instantly grasp the practical value of his advice, appreciate his expert knowledge and are grateful for his thoughtfulness.





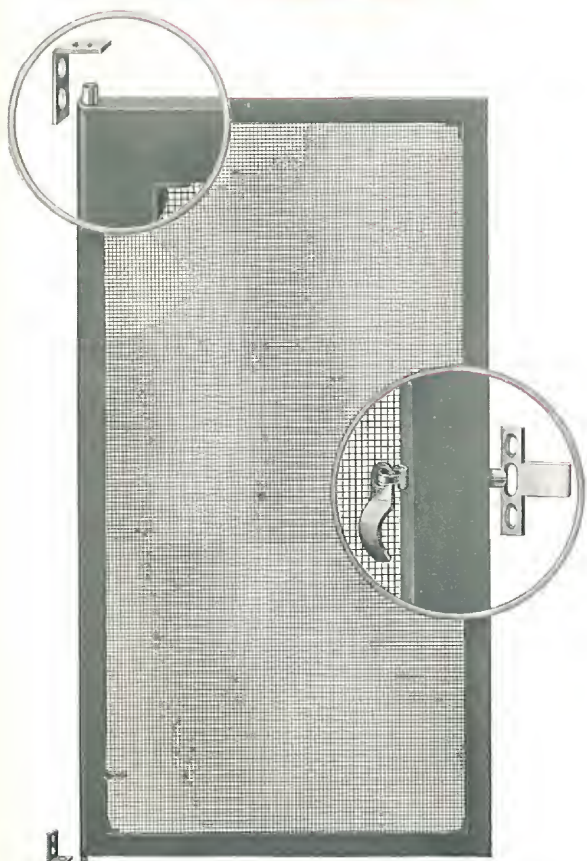
CASEMENT

THE casement screen, which covers the entire window, opens like a door and swings free for easy window washing, and is a convenient protection for many openings. It is used outside or inside, depending on the type of window.

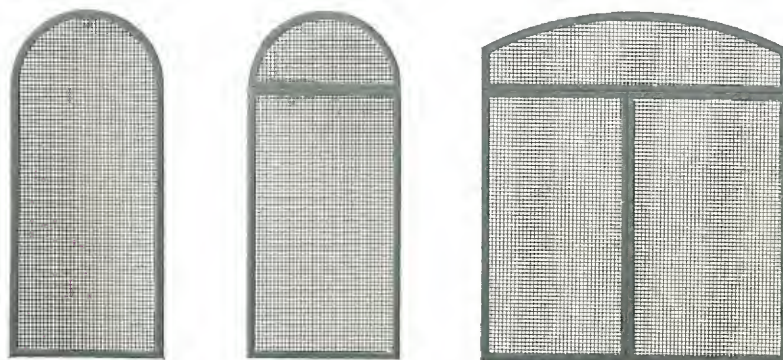
On account of the narrow metal frames they allow the full opening and full ventilation planned by your architect. They are made to fit accurately any arch or special shape. As the entire weight of a casement screen is suspended from one side it puts a severe strain on the frame. The Watson tubular construction with reinforced corners resists this perfectly. They never sag.

When used inside on casement windows, valances, curtains and shades should be planned to clear the top and sides of the screen so it can swing freely. When, as it frequently happens, proper preparation has not been made for clearance between the screen and window sill, the screen should be fitted with our fabric insert to prevent marring the sill.

Casement screens fasten shut with a spring bolt built flush with the frame, which locks them tightly. The hinge pivots are also built



Single Casement Screen



Various Shapes and Conditions Successfully Screened

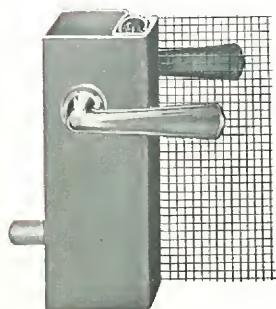


SCREENS

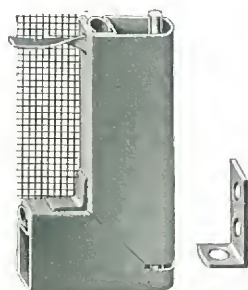
into the frame to keep it free from entangling projections. The pivots slip easily into place and hold tightly until you want to remove the screen when they release at a touch of a lever. The screen is easily removed or replaced by feminine hands; no tools being required, no pins to mislay. The keepers in which the pivots revolve snugly close into window corners and offer no projections to tear draperies or catch wiping cloths when screens have been removed.

Where double casements meet in the center a projecting edge on each screen, one outside, one inside, makes a smooth flytight joint. These flanges cannot loosen as they are formed of the same piece of metal as the screen frame.

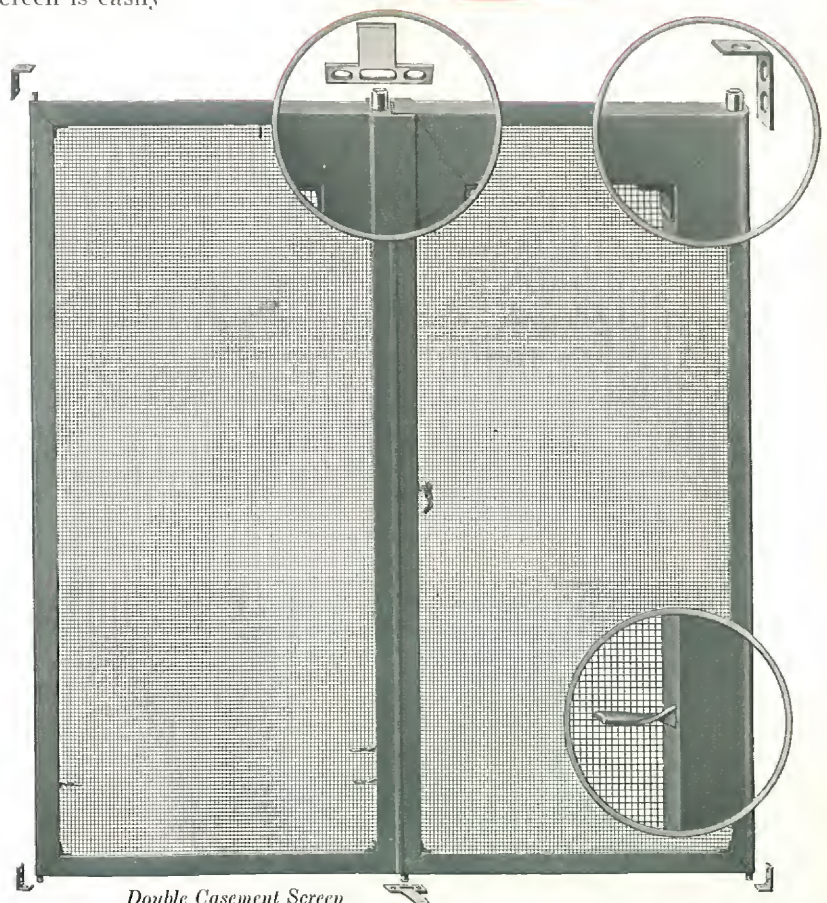
Glass panels, interchangeable with the screens, are sometimes furnished providing double glass with air space between as an added protection against wind, rain and severe cold.



Special Double Lever Latch



*Enclosed Pivot
Does not mar window sill*



Double Casement Screen

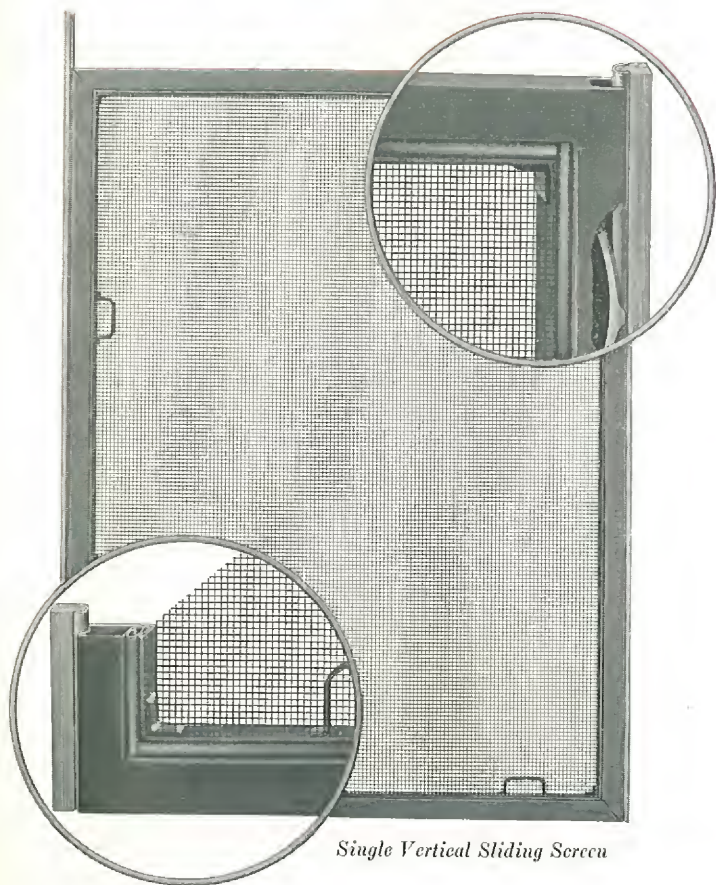


SLIDING

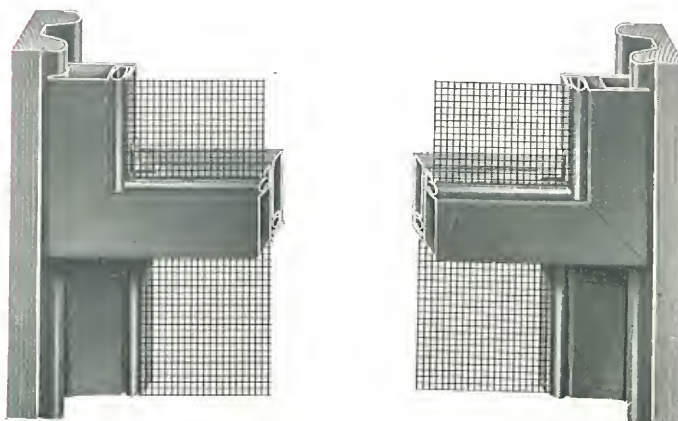
WINDOWS which have upper and lower sash may be screened in several ways. If the screen must be opened frequently to adjust awnings or care for flower boxes, screens which slide up and down are convenient.

When it is not necessary to protect the entire window, single half height screens save expense. The screen slides easily to cover either top or bottom opening, is light in weight, readily removed or replaced and takes little storage space.

To cover the entire window two screens, an upper and a lower, are required. The grooved edges of the screen slide easily on rounded guides which are neat in appearance, not readily damaged; do not injure curtains or scrape arms. They allow the screen to lie closely to the sash and show an equal width of screen frame on both sides.



Single Vertical Sliding Screen



Vertical Twin Sliding Screens

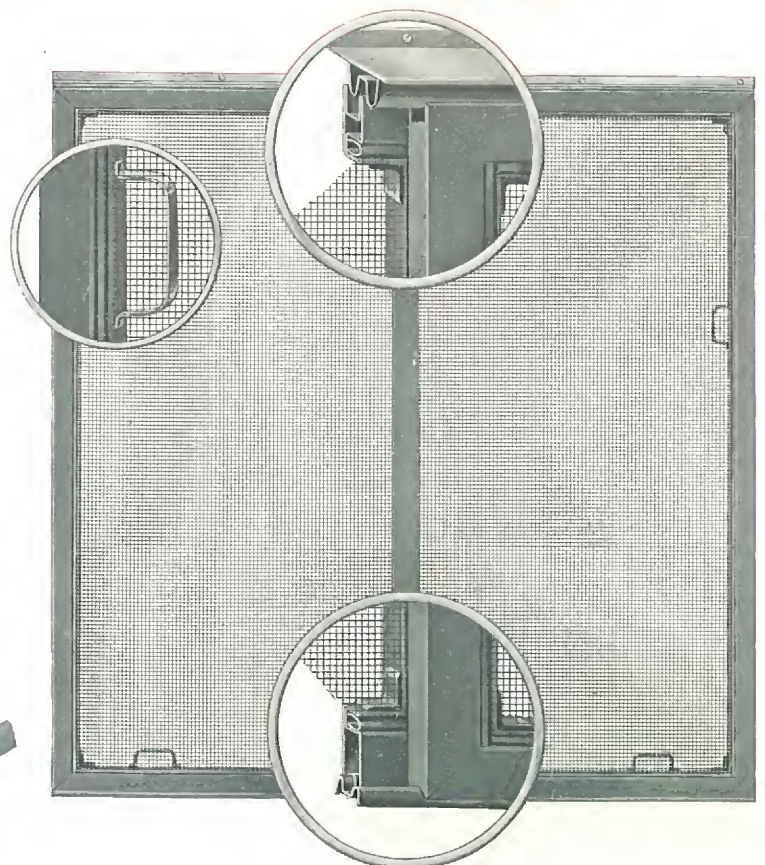


SCREENS

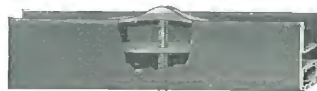
Series of outswinging casements set in one opening, with continuous uninterrupted sill, are often satisfactorily protected with screens that slide sidewise. Double rounded metal slides allow one section to slide past another. By shifting the screens any part of the window may be quickly uncovered.

Horizontal sliding screens move easily, on rollers if desired, and do not interfere with shades or hangings. The slides at the top are standard height with rounded surface. The slides on the sill are narrow and low, of heavy metal so they do not dent easily; have no sharp edges to catch clothing or damage curtains.

Channel guides of metal with the edges bent up to form a groove are sometimes used. We can furnish them if preferred. Our experience has shown rounded guides to be more efficient, durable, neater, and safer.



Webbing Strip
For side or bottom of screen



Locking Screw to Prevent
Accidental Removal of Screen



Slide for Head



Slide for Sill

Channel slides may be had if desired

Horizontal Sliding Screens



TOP HUNG SCREENS

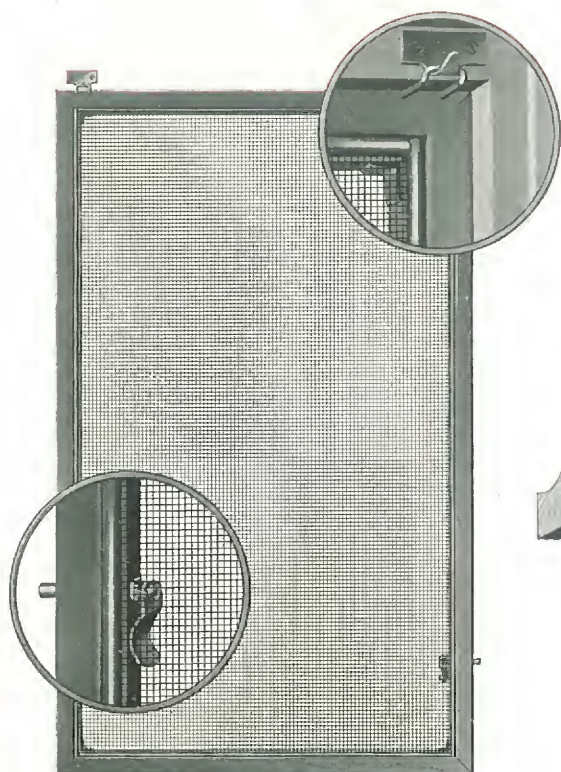
An economical, practical way to screen the full opening of a window having sliding sash. Watson metal frame, top hung screens, swing from hangers placed on the outside of the window frame and fasten tightly at the bottom with spring bolts or other suitable fastening. They are easily removed: swing them outward and lift them off the hangers; it can be done easily by a person standing on the floor and the screen taken in through the window.

They cover the full window area, allow both top and bottom sash to be opened, swing out to wash windows or adjust awnings. With this type of screen, flower boxes should be set well below window level.

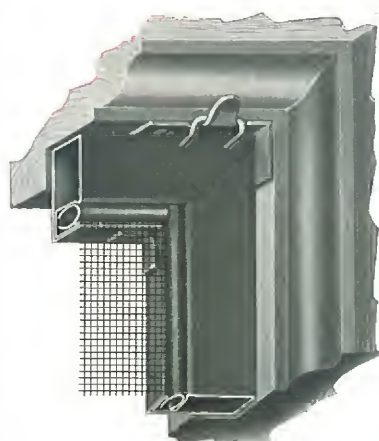
Bronze and Steel. Metal frame screens are usually either commercial bronze or steel. Bronze is rust proof. It is not affected by atmospheric conditions. It need not be refinished or removed from the window. Consequently it is particularly recommended for all outside screens.

Every possible precaution is taken to protect Watson steel frame screens from rust and with reasonable care they will give years of satisfactory service. Anaconda bronze wire cloth used in all Watson screens.

Bronze Wire Cloth. Solid commercial bronze wire cloth containing not less than 90% copper is used in all Watson screens.



Top Hung Screen — Flat Type Hanger



Angle Type Hanger



PIVOT HINGED SCREENS

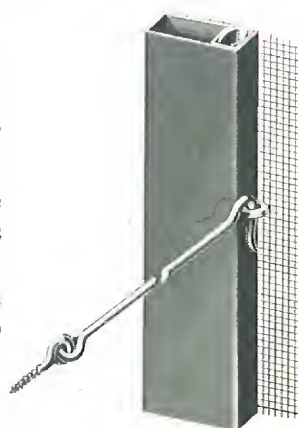
PIVOT hinged screens cover the entire window opening and may be hung inside or outside the sash. They may be hinged at the top as shown in the illustration on this page or hinged at the side as a casement screen shown on pages eight and nine.

Used as an outward opening screen it swings out of the way to leave the entire window free for washing. For many windows which require the full opening protected this is the most satisfactory method of screening.

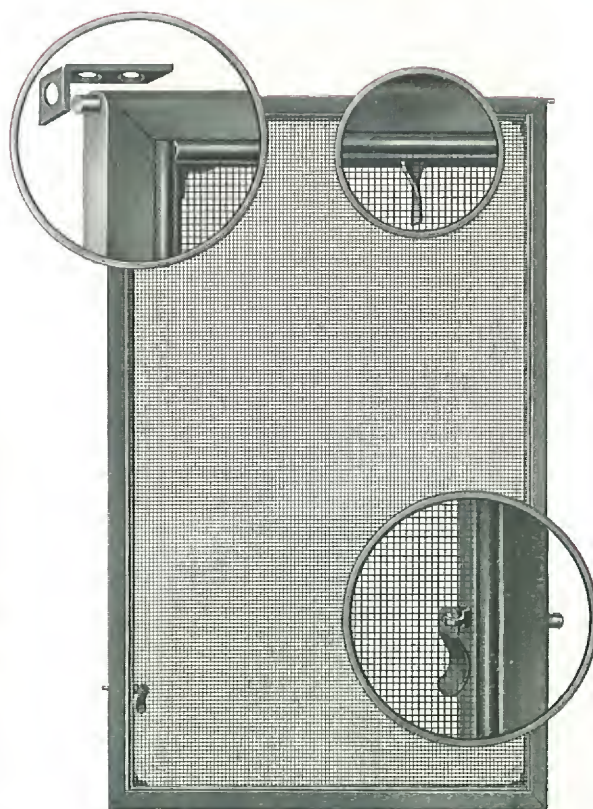
Use of an in-opening screen is sometimes necessary; otherwise it is undesirable.

Pivot hinged screens fit neatly, no fastenings show; just a trim line of metal around the window which adds to the appearance of your home. The conditions surrounding the window determine the method of hanging. The Watson man will advise the most satisfactory way.

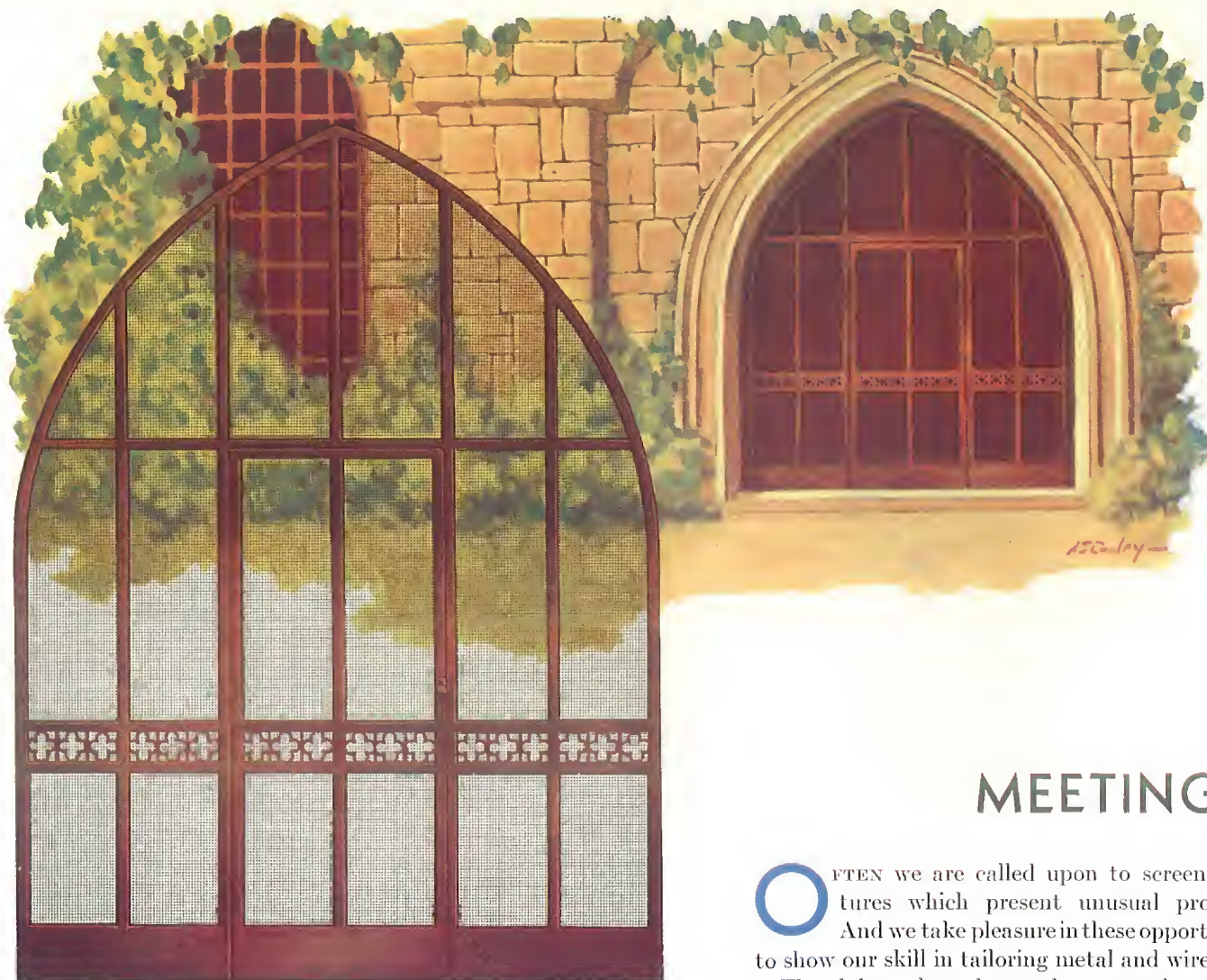
Hinged at the top it swings outward from the bottom and because the pivots hold firmly in their keepers there can be no possibility of its being loosened accidentally and falling. Pivot hinged screens are held closely to the window with hinges at the top and spring bolts at the bottom, both built flush with the frame. Easily removed at the touch of a lever and taken in through the window. The frame offers no projections to interfere with compact storage.



Extension Brace



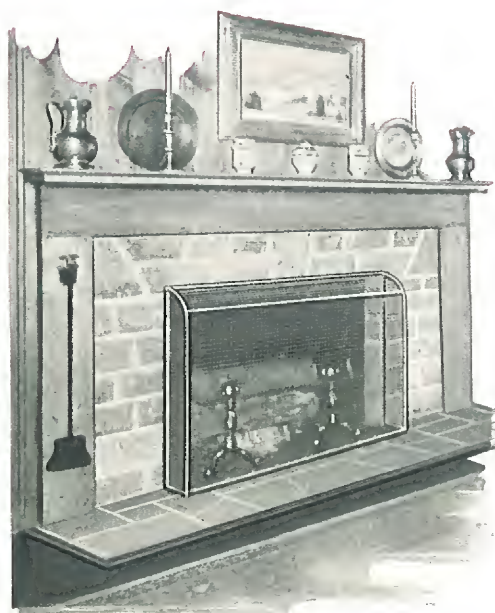
Top Pivot Hinged Screen



MEETING UNUS

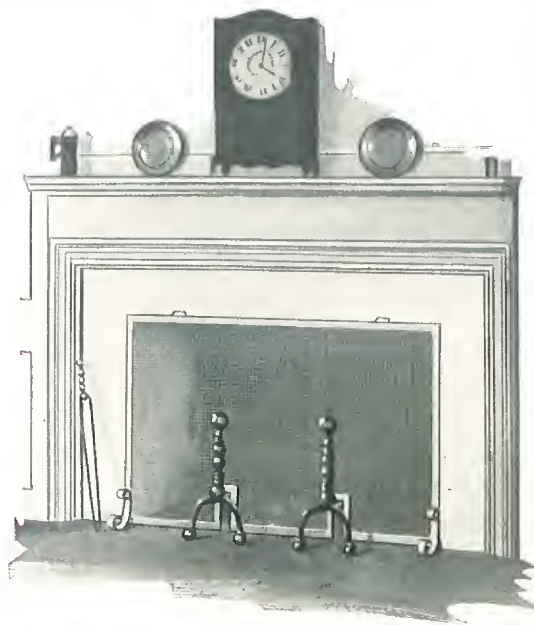
OFTEN we are called upon to screen structures which present unusual problems. And we take pleasure in these opportunities to show our skill in tailoring metal and wire cloth.

The cloister door shown above was done to the complete satisfaction of the owners, as was the immense window requiring sixteen separate screens on the opposite page.



SCREENS FOR FIRE PLACES

AN unscreened fire place often solves the mystery of the flies' secret passage. A chimney warmed by the embers of a dying fire invites hundreds of flies to enjoy the comfort of your house on cool mornings. A fire place screen traps them. It also prevents sparks and embers from snapping out and burning rugs, carpets or furniture.





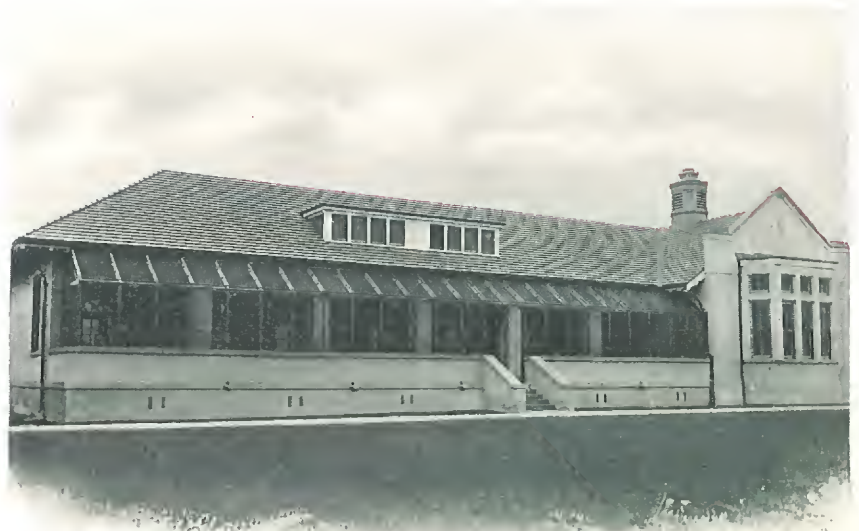
USUAL CONDITIONS

We have screened bell towers against nesting birds, we have roofed, with wire cloth, open courts and patios of all sizes so the windows and doors which opened on them might remain un-screened. We have screened swimming pools, garden and tea houses and children's play houses.

We have screened ventilated, illuminated ceilings. We have screened open porches. An example of an unusual job is shown in the lower right hand corner, a hospital pavilion for tubercular patients. In cases of this kind we not only design the screens but design, construct and install the structural work required to support the screens.

We have screened stables, pleasure boats, private yachts, house boats, busses and touring homes and factories where food is prepared, packed or dispensed. Workrooms where delicate fabrics are made into dainty lingerie and other garments. Millions have traveled in greater comfort protected from flies and cinders by Watson screens in dining, observation and chair cars and Pullman sleepers.

Probably our most unusual commission was screening a green house against insects, beetles, moths, etc., whose larva is destructive to plant growth.





MAKING YOUR PORCH AN

SCREENS more than double the pleasure of a porch; they make it an open air living room with indoor comfort, give an unobstructed view of garden or grounds and allow the full sweep of cooling breezes.

You can serve refreshments or meals on a screened porch in perfect comfort. You can read or nap on it free from annoyance by day or night flying insects. For a good part of the year it will be your living room.

Plan your porches to take screens when you start to plan your house, whether you intend to have them at once or later. While the house is being built the narrow strips to hold screens can be put in place at little or no extra cost. And, when planned by your architect, can be installed more neatly, perhaps as part of a decorative scheme. To add them later means added expense and the method of attaching may detract from the appearance of your porch.

We have prepared drawings to show your architect the details of construction needed to take our screens and are pleased to cooperate with him in every way. We have screened many fine homes; perhaps out of that experience we may be able to offer a helpful suggestion.

You save screens and money when you screen your porches at the same time you screen the rest of the house. You save a screen for every door and window that opens on that porch. You may as well enjoy the comfort and economy of a screened porch from the start.

We very successfully screen uncovered sun porches and terraces, and design the necessary structural work of ample strength to support the screens, as



N OPEN AIR LIVING ROOM

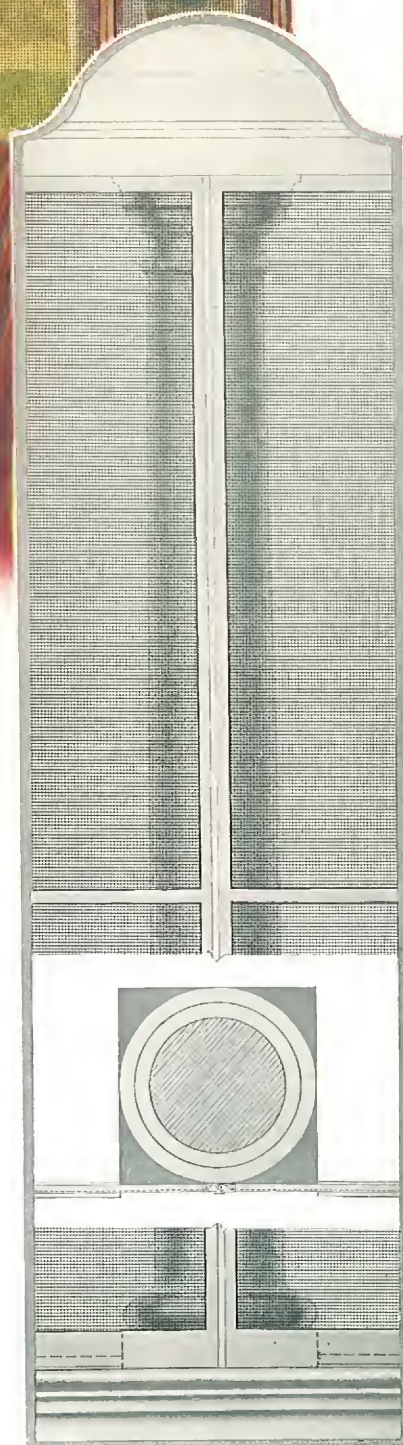
well as provide for awnings, and still retain the open porch effect planned by your architect.

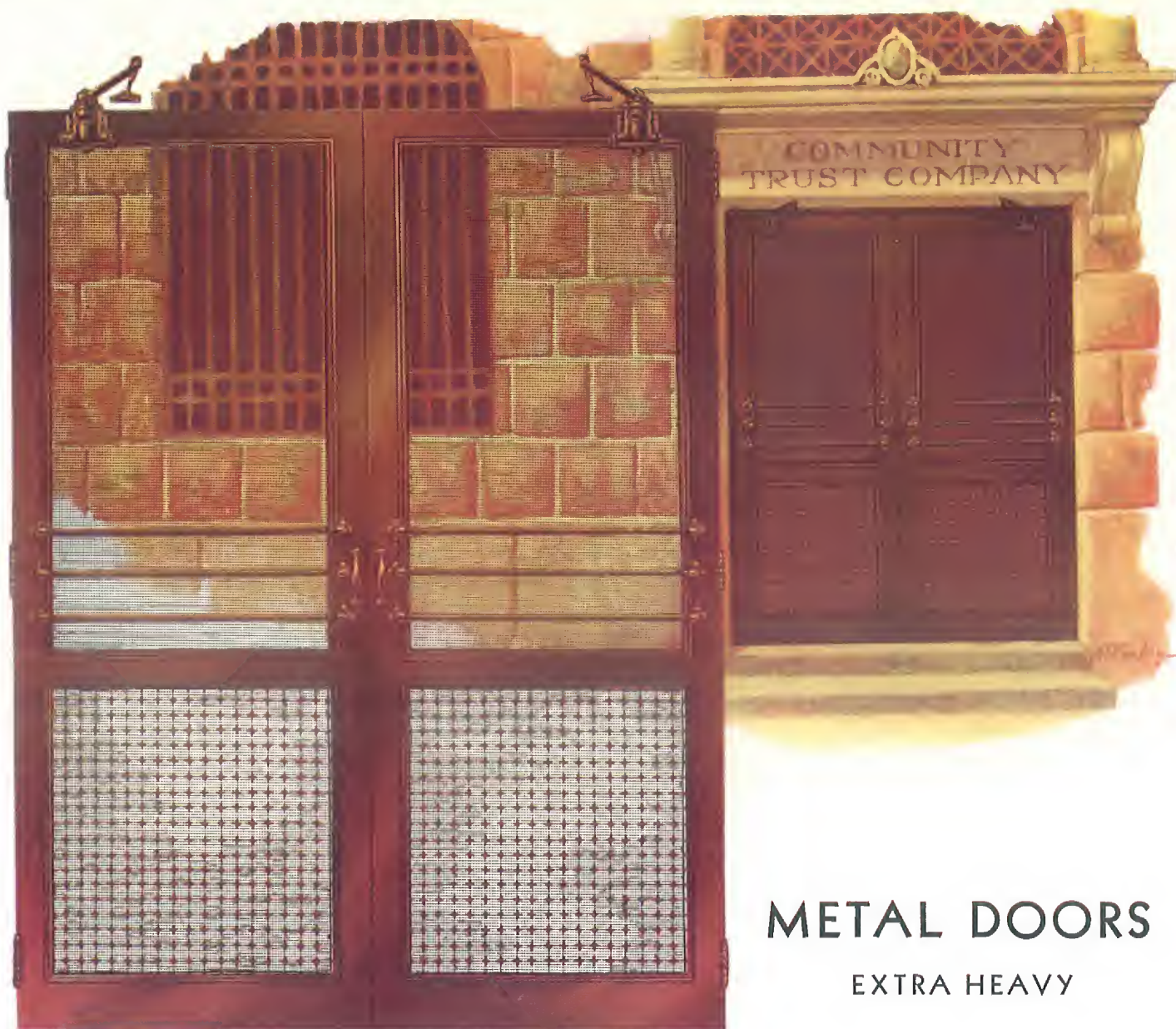
Watson screens always consider your convenience. The sections are proportioned for easy handling and to require little space for storage. Each section is numbered to make replacement easy. Many people leave their bronze frame porch screens up all winter. They do not rust and offer some protection against snow.

We can screen satisfactorily any porch or balcony. Porches, unless planned in the beginning to take screens, may present problems to you which we, with our long and varied experience in screening, have met before. We consider it a privilege to estimate on such work.

These pages show three ways of screening a porch. In the color illustration with the columns outside the screens, the exterior effect is preserved at the expense of floor space. In the detail drawing on the left the screens fit between the columns, preserving the architectural effect both inside and out. In the drawing on the right the columns stand inside the screens which provides more porch room at a sacrifice of outward appearance. This simple illustration demonstrates the advisability of planning for screens when you start to plan your home.

Elaborately designed porches require careful preparation for screens to achieve a satisfactory result, economically, and without sacrificing architectural beauty.

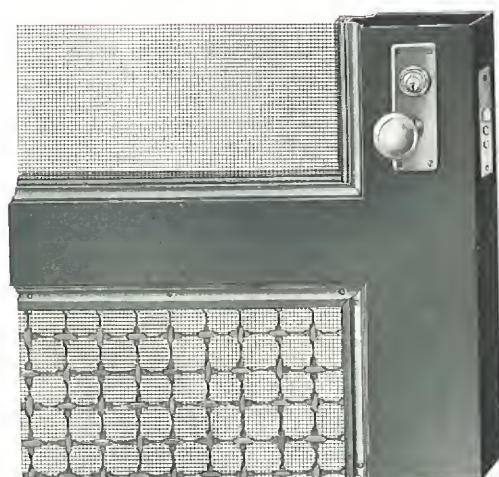




METAL DOORS

EXTRA HEAVY

For Guards and Hardware see pages 30 and 31



A MASSIVE door, possessing the dignity, stateliness and beauty to make it appropriate for the most imposing and exclusive entrances. It suggests wealth, position, security. Designed for luxurious residences or for banks and public buildings.

Its broad, substantial frame, with its simple, dignified cove moulding on both inside and outside, whether made with one or more panels, conveys an impression of solid worth, strength and permanence that is fully carried out in the substantial construction of the door itself. A piece of work any artisan in metal would be proud to claim as his.

It swings gently on ball bearing hinges of solid bronze. The locks and other fittings are quite naturally,—the best.

These doors may be finished to match the entrance. Or if left without artificial coloring or coating they assume the satiny sheen and pleasant warm tinge of statuary bronze and this appearance grows richer and more beautiful with age.



METAL DOORS

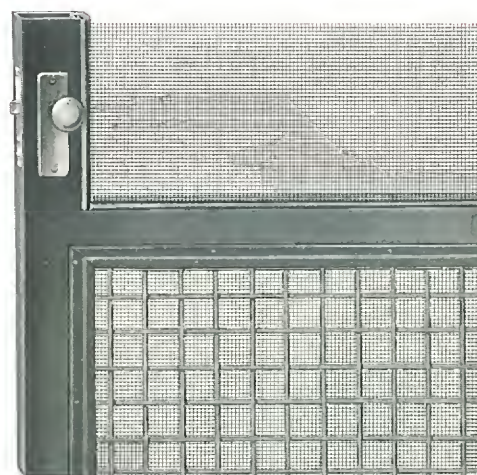
HEAVY

For Guards and Hardware see pages 30 and 31

THE entrance gives the first intimate impression of your home. It strikes the key-note of your house,—it is the place where hospitality begins. It is usually the only part of the exterior of your home the visitor inspects closely. While he waits your welcome he studies your doorway. Your screen door should be chosen with the same care as your entrance door. For at least half of the year it is your entrance door.

Heavy metal doors were designed for the entrance of the residence in which everything is of the best and shows it. They add much to the beauty of an entrance and give full protection and a lifetime of satisfactory service.

They are rigidly constructed of heavy metal. The frames are kept narrow to give the maximum area for ventilation, yet sufficiently strong to be suitable for the finest homes. The equipment furnished with them is in accord with the fineness of the door.

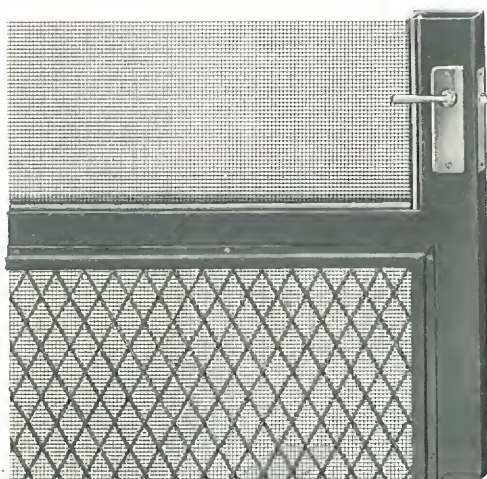




For Hardware and Guards see pages 30 and 31

METAL DOORS

MEDIUM



DOORS are the real test of a screening job. They are constantly being opened and closed, oftentimes carelessly; they get more strain than any other form of screen.

Medium weight metal doors were designed for ordinary residence use. They have the same size frames as the heavy metal doors but are of lighter construction. They in no way suggest oversized window screens. They are well made, substantial looking doors rigid enough to give many years of service for average residence use. They were designed to meet an ever growing demand for a handsome metal door at a moderate price.

As with our other metal doors they may be furnished in bronze, steel or other metals. The steel doors may be finished in any plain color for which we use the best materials and the most modern methods of application after test and approval of our research department, or they may be finished to duplicate the appearance of any fine wood. Steel doors are galvanized after they are assembled to add to their rust resisting qualities.



METAL DOORS

LIGHT

For Hardware and Guards see pages 30 and 31

FRENCH doors add much to the grace and charm of a room. They seem so much more intimately a part of the room itself than any other doors. And the doors which screen them should be as inconspicuous as possible, should have that same airy grace and yet be substantial enough to be thoroughly practical.

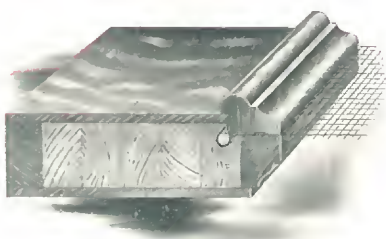
And this our light weight doors accomplish to a nice degree. The metal used is the same thickness and the frames are the same width as our medium weight doors; the frames are thinner hence the designation light. At the same time they are sufficiently rigid and strong for places where they will not be subjected to hard and continual use. They allow the full field of vision and air circulation provided by French doors.

The frames are made light to harmonize with metal frame window screens because screens for French doors are often set inside the room. They are scientifically constructed doors, designed for a special purpose, in which you will take much pride, comfort and enjoyment. They are not window screens masquerading as doors.





For Guards and Hardware see pages 30 and 31



VENEERED DOORS. Many years ago we adopted veneered construction for all hardwood doors, a construction which permits a better selection of material and a lighter door because of the light, soft wood built-up core, which also guards against the usual warping and twisting incident to solid wood construction. Years of experience have demonstrated not only the practicability of such construction but also its advisability and reliability.

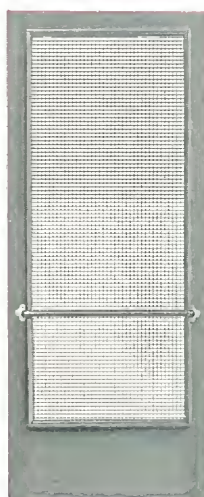
WOOD DOORS

THERE'S as much difference in screen doors as there is in furniture. In both, the superiority which causes the better appearance, the lasting satisfaction, the economy of long service, depends on the grade of materials used and the character of the workmanship put into it; too often a coat of paint covers many shortcomings.

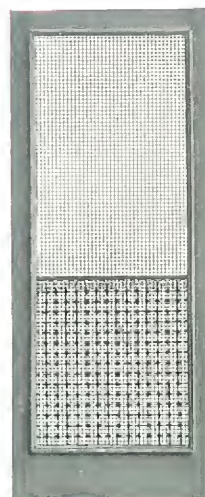
The complete cost of Watson wood screen doors, including hardware, finishing and installation in your home, is usually not only less expensive than screens furnished by local mills but without the bother of purchasing hardware, hiring a carpenter to install them and a finisher to finish them. Over a period of years the in-wrought quality of Watson doors makes them more satisfactory as well as lower in cost.



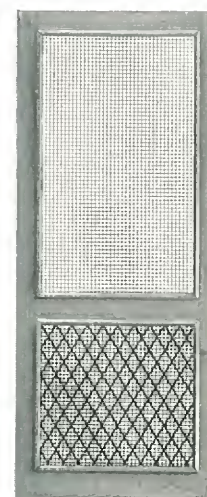
*Doweled Corner Construction is standard
Mortise and Tennon Construction if preferred*



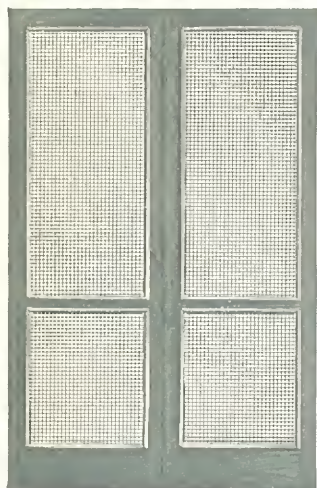
*Style No. 10
with metal push rod*



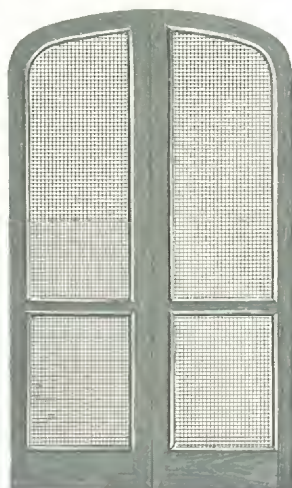
*Style No. 10
with No. 8A guard*



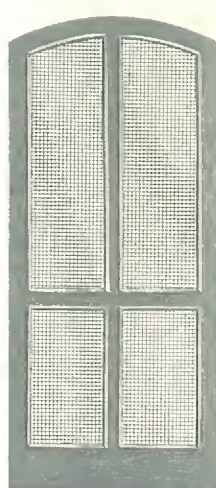
*Style No. 21
with No. 23 guard*



Style No. 212



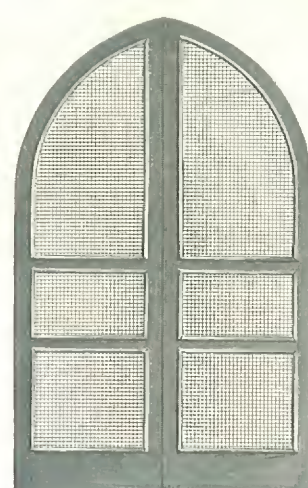
Style No. 212
with oval top



Style No. 41
with segment top



Style No. 40
with circle top



Style No. 342
with Gothic top

Irregularly shaped doors of all kinds

WHY WATSON WOOD DOORS ARE SUPERIOR

EVERY Watson door is made especially for the opening it is to fit—any shape, any size. The wood is carefully selected, straight grain, free from knots and thoroughly kiln dried. For long and satisfactory service we recommend hinges and latches of solid brass or bronze but we can supply a wide variety in other less expensive metals.

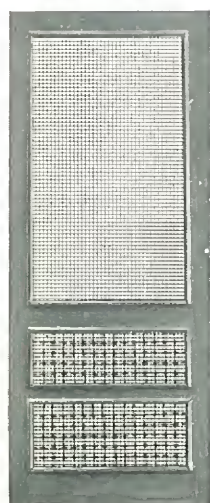
The corner construction, cope cut and doweled, gives ample glue surface, prevents twisting, cannot shrink or loosen. All glue surfaces are concealed from the weather but to be doubly sure water proof glue is used as an added protection.

The improved groove and spline method of fastening the wire cloth grips tightly each individual strand of wire and at the same time distributes the strain evenly

over the entire fabric. The groove sets well back from the door edge and gives ample strength. The wire cloth sets below the surface which allows the moulding which covers the fastening of the cloth and the edge of the door to fit neatly.

For hardwood doors a heavy veneer is laid on a built-up laminated core. This makes a light, strong frame which is not as likely to warp or twist as a door of solid wood. These are furnished in any kind of hard wood finished to match the house door or the surrounding woodwork.

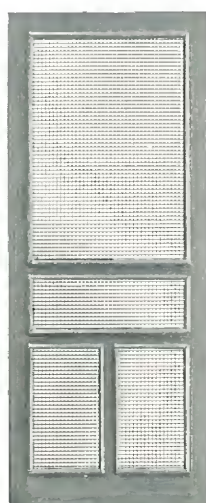
The finish on Watson doors is the best material we can buy, selected after exhaustive exposure tests and applied by the most modern methods. Pyroxylin lacquers, paints and enamels are used as desired.



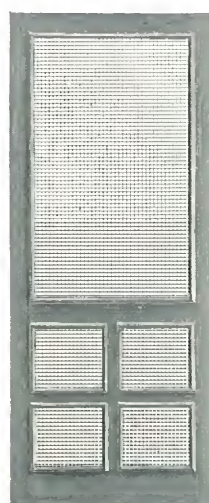
Style No. 34
with No. 8 guard



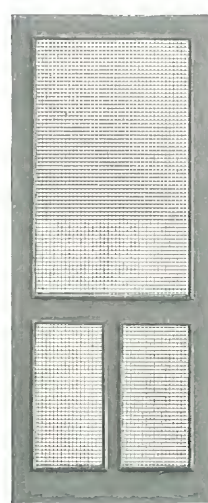
Style No. 21



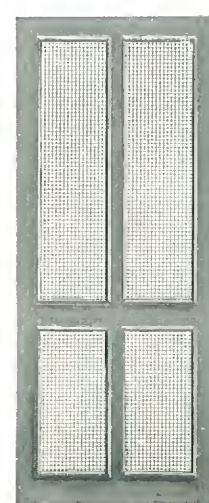
Style No. 40



Style No. 52



Style No. 30



Style No. 41

ROLL SCREENS

TWENTY-FIVE years ago Watson recognized the advantages of roll screens and after a thorough study of the requirements and characteristics produced their Twentieth Century roll screens, which have given, over a long period of years, most satisfactory service. These screens are still produced in their original construction.

Roll screens have many desirable features. They are always in place, yet always available to protect your home against insects and to protect your draperies against winds. When not in use they are out of sight, out of the way and protected from dust, dirt and weather.

When the first fly arrives in the spring pull down the screens like window shades. When the last fly departs roll the screens up after him.

They do not have to be removed or replaced and there is nothing to cart through the house, no draperies mussed, no window frames marred, and they require no storage space. If the day is cool push the screens up out of the way and close the window and there is no wire cloth to obstruct the light or vision.

Roll screens are usually installed inside and are therefore protected from inclement weather conditions. The rain does not beat through the screens and deposit the dust and dirt on the window glass. They are finished to match the window trim.

Roll screens are all metal construction and when properly installed they become a permanent fixture although easily removable for repairs, if necessary.

Roll screens are adaptable for installation in new buildings in various ways, either exposed or concealed, and also may be used in old buildings. They do not interfere with draperies or curtains. There is none of the cleaning, repairing, sorting and refinishing of screens as required for frame screens.

Washing windows, operating awnings, watering flower boxes, etc., present no difficulties so far as screens are concerned.

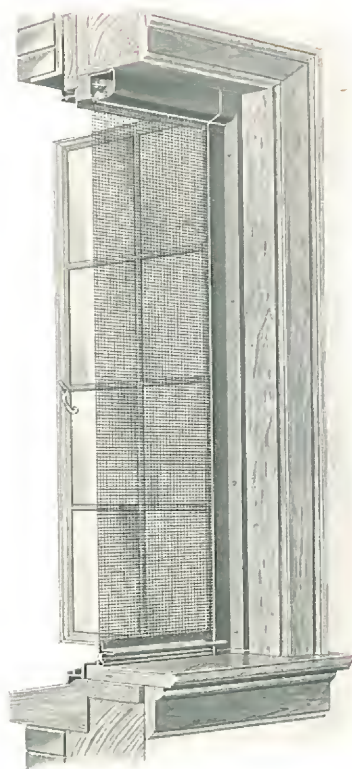
TWENTIETH CENTURY ROLL SCREENS

WE believe Twentieth Century Roll Screens will give, under the same conditions of usage, better and more satisfactory service over a longer period of time than any other roll screen.

Twentieth Century Roll Screens work quietly. They slide up or down easily and will stay in any position without fastening. The lower bar cannot tilt or stick. The spring has nothing to do with raising the screen. Its only purpose is to keep the wire cloth tight. A resilient cushion, the full length of the operating bar, closes tightly the space between it and the window sill and prevents marring the woodwork.

The Twentieth Century Roll Screen is a complete unit, each made to fit a particular window, shipped assembled, completely finished, ready to set into place. Realizing the necessity for expert installation of any screen we prefer to quote a price which includes fitting to your windows under expert supervision.

Twentieth Century Roll Screens are fitted with special weight and temper bronze wire cloth which has the proper resiliency to roll easily and smoothly. The guides have rounded edges that will not cut the wire cloth.



Detail of a typical installation

EFFICIENCY ROLL SCREENS

TYPES AB AND AC

In making roll screens there are many ways in which a manufacturer who does not maintain Watson standards of quality can cut his production costs. Cheaper materials, inferior construction, less careful workmanship take years off the life of the screen, render its service less satisfactory, and often take little or nothing off the price to the user.

Type AB is a medium priced roll screen of high grade materials and workmanship. A rigid, tubular, non-binding, spring roller running on hardened steel ball bearings raises the screen when the latches are released.

The screen is freed by a downward pressure on the catch levers and consequently is at all times under control. The latch levers set well in from the sides of the window, lock automatically and positively and are easy and comfortable to operate. The catch bolts allow a slight adjustment which automatically takes up any opening between operating bar and sill. A resilient cushion strip extends the full length of the operating bar. The wire cloth used is the best quality standard weight bronze, 16 meshes to the inch.

The lower priced Type AC screens are of the same design, construction and material except they have plain bearings, no cushioned strip on lower bar and in place of bronze have electro galvanized wire cloth, known under various trade names, which are often misleading, such as Galvanoid, Alumina, etc.

ROLL SCREENS COMPARED TO FRAME SCREENS

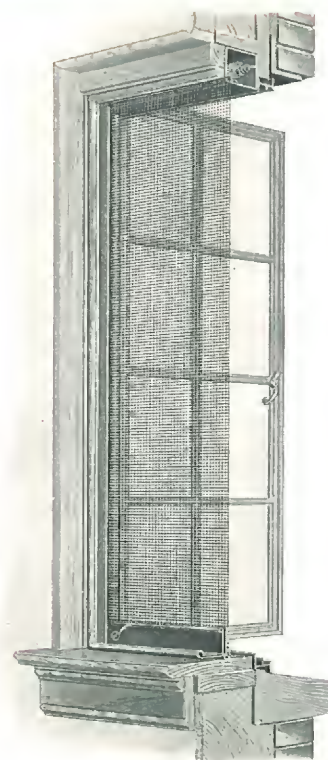
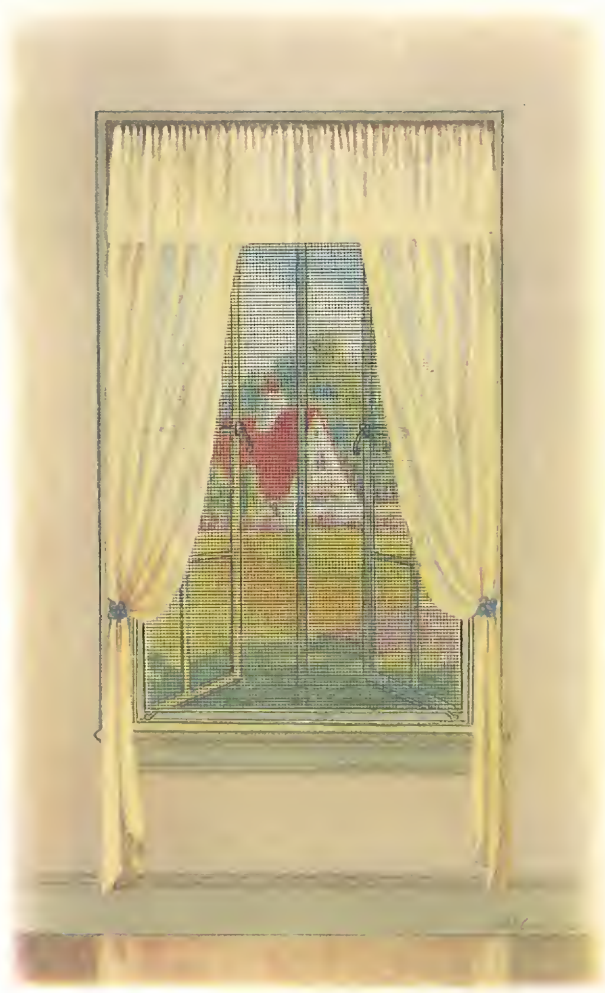
As we make all kinds of screens, both frame and roll, Watson dealers recommend without prejudice the kind of screen best suited for each window according to varying conditions.

While we recognize the advantages and many desirable features of roll screens, especially for use inside with casement sash, there are some characteristic disadvantages which should be understood. A roll screen is a mechanical device. The working parts must be accurately adjusted. Our twenty-five years' experience in manufacturing roll screens has enabled us to embody in our screens the necessary features of design, material and construction to assure a roll screen which gives years of satisfactory service.

There is no successful method of stretching wire cloth tightly across the window, or of holding its edges firmly in place on a roll screen. Attachments of any kind weaken the selvage edge of the wire cloth, soon resulting in breakage caused by bending and straightening as the wire cloth rolls and unrolls.

Our construction eliminates such fastenings, insuring maximum usage for the entire life of the wire cloth.

At best, roll screens are a compromise between convenience and practicability. If handled carelessly, injury is likely to result, causing disappointment and expense to the owner. Properly handled a well made roll screen is a comfort and convenience.



Detail of a typical installation

MATERIALS USED IN CONSTRUCTION OF WATSON METAL SCREENS

BRONZE SCREENS are made throughout of commercial Bronze which contains not less than 90% copper. It has all the quality of copper and is 50% stronger. It is a stiff, strong, handsome metal which, left in its natural finish, takes on a beautiful artistic color, known as statuary bronze that grows richer in appearance with age. It never requires refinishing.

As bronze is not affected by natural atmospheric conditions, it does not rust or deteriorate with exposure to weather. Many people leave their bronze screens in place all winter, particularly on porches where they offer some protection from snow and on cellar and basement windows to keep out mice and other vermin.

Naturally we recommend bronze screens not only for their durability and beauty but for economy. Their first cost is slightly higher than steel or wood but that first cost is the last cost, no painting or refinishing of frame or wire cloth, no replacements except on account of accidents or unusual conditions. Steel screens are not furnished in imitation bronze.

STEEL SCREENS are made from a superior rust resisting, copper - bearing steel coated with an alloy of lead and tin as an additional protection. After

the screen frame is completely assembled it is galvanized by the hot cyanide electro-galvanizing process covering all abraded surfaces and cut edges or corners exposed in fabrication with a heavy, dense, rustless coating of pure zinc. It is the best process we have found to protect steel from rust.

No steel screen is absolutely rust proof. Rust is a relentless enemy of steel and attacks it through microscopic openings but not in a manner to impair the screen's usefulness for many years, especially if painted at reasonable intervals.

Steel frames are finished with the best materials applied by most modern methods in any plain color or can be finished to match in both grain and color any wood trim. With ordinary care our steel frame screens will give long and satisfactory service.

OTHER METALS. Several alloys of nickel and copper, and occasionally other metals, are used to some extent. Monel and ambrac are the most important and are considered of exceptional durability but are somewhat more expensive than bronze.

Among the lighter colored metals alloys of zinc have had limited usage.

Stainless steel, an alloy generally of iron, nickel and chromium, may be used but is also expensive, and apart from color has no advantage over bronze.

Because of its lighter color aluminum is used to some extent. It does not have any great advantage in weight and none at all in strength and durability over bronze. Aluminum screens are usually supplied unfinished, and under various conditions of atmospheric exposure the metal tarnishes readily, particularly along the sea coast where it becomes almost black.

Aluminum wire cloth, especially, does not have the strength and stiffness of bronze. When bronze cloth is used on aluminum frames, it causes an electrolytic action which seriously affects the durability of the screens.

Information will be furnished on any special material on request.





WARDELL APARTMENT HOTEL
Detroit, Mich.

A FEW SUGGESTIONS TO HELP US GIVE YOU A BETTER JOB

SCREENS are as necessary for your comfort as the lighting, heating and plumbing which are planned from the start. Begin at the same time to plan for screens. It will insure a more satisfactory job and save you money.

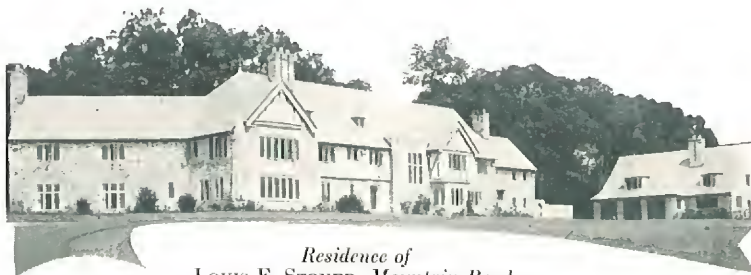
Our consulting service is glad to work with your architect or contractor in the selection of the best type of screens and the best method of applying them. A separate screen contract is most satisfactory. You get the benefit of expert advice; all the screens for windows, doors, porches are made in one factory, are of superior quality, all shipped at one time and installed under the supervision of a specialist. From the time you place your order with us you may rest confident that your screens will be a credit to your home.

In our forty years' experience steel and bronze have proved the most satisfactory metals for screen construction. Other metals and new alloys are being offered. We can make screens of any

suitable metal but suggest you consult with us regarding its desirability for screens.

Every Watson screen is made to measure for the window it is to fit. We can quote prices from architects' drawings or rough measurements but we must wait until the house nears completion to take the accurate measurements necessary for screens to fit the Watson way.

If your home is completed for occupancy during the fall or winter the screens should be promptly purchased and installed and if necessary removed and stored ready for spring replacement—or place your order for spring delivery. This permits us to make your screens during the dull winter months. You do not pay until the contract is completed. So many people postpone ordering until spring when screens are actually needed and every factory is congested with orders. During the winter months we can give your order every attention. It need not be hurried, so order early to avoid delay.



Residence of
LOUIS E. STONER, Mountain Road
West Hartford, Conn.

WHY WATSON METAL FRAME SCREENS ARE SUPERIOR



*Section through
metal frame screen*



Spring Bolt



*Rewirable brace for
exceptionally large screens*



Patented reinforced corner

As screens should be a one time purchase, it is economy to choose the best. Metal has supplanted wood on fine homes. Watson metal frames are stronger and lighter than wood and add to the appearance of a home.

Rest the end of a Watson metal frame screen on the floor, take one of the upper corners in each hand and try to twist it. Would you believe such a slender frame could be so rigid?

Watson frames are the lightest and stiffest made, supplied in heavier metal if desired; their strength, stiffness and rigidity lies in their construction and in the proper distribution of the metal where it is most effective and not in mere weight. Notice the two thicknesses of metal on the bottom and one side of the groove in which the wire cloth is fastened.

In bronze these two thicknesses of metal are firmly secured together their entire length by brazing or welding, making the frame a rigid tube. The corners are either reinforced by our patented heavy one piece reinforcing angle to which the adjacent frame sides are securely brazed or welded to make the metal solid.

The wire cloth pulls against that double strength edge. At this vital point Watson frames are strongest. Along the edge, over which the wire cloth is stretched, one thickness of metal laps over the other to make a rounded edge that will not cut the tightly drawn mesh.

The resilient, slotted tube securely locks each strand of wire in place, yet distributes the strain evenly over the entire frame. Watson metal frames are easy to rewire, should it become necessary, and no special tools are required. It is rarely necessary to send the screens to the factory for rewiring.

Each Watson screen is identified with a number stamped into the metal frame; a small metal disk bearing a corresponding number is placed on the window opening so that each screen may be quickly returned to its proper place after winter storage.

All metal frame screens are furnished with lifts, catches, bolts, etc., built flush with the frame for economy of storage space.



*Patented astragal for
double casement screens*



*Identification number
on each screen*



*Round edge brace
for large screens*

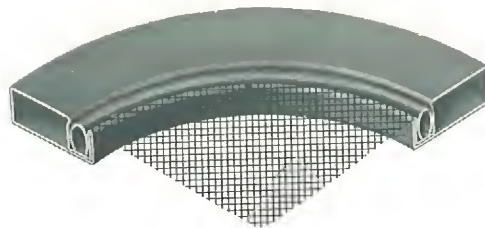
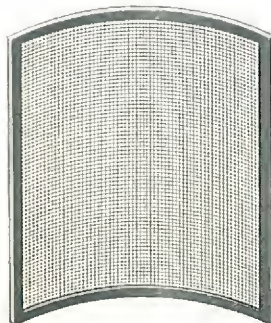
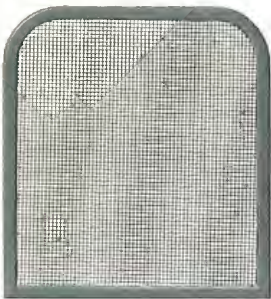
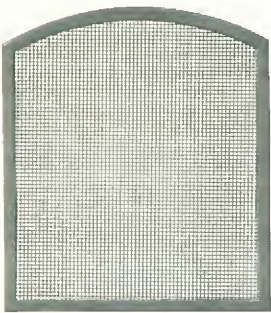
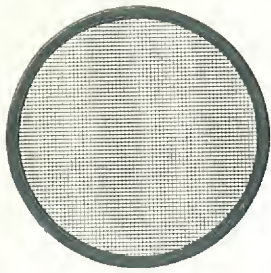


Pivot Bolt

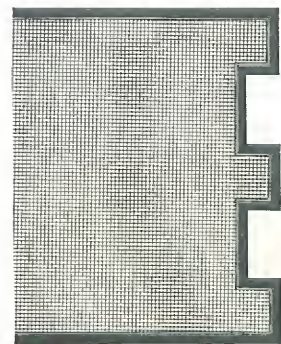
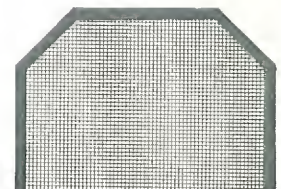
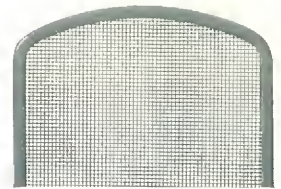
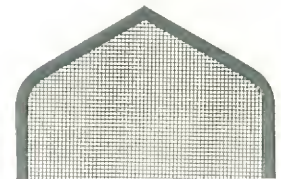
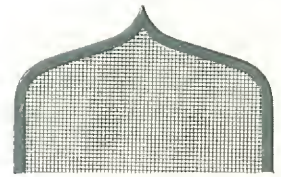
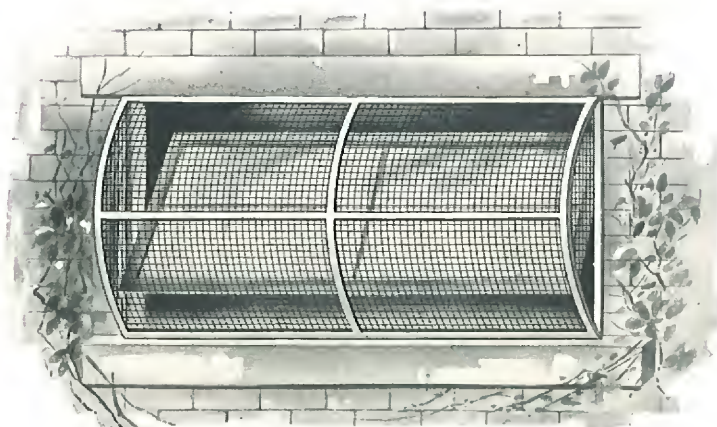
OPENINGS OF ANY SHAPE CAN BE SCREENED PERFECTLY

As another instance of Watson facilities and skill, we screen any shape of opening perfectly—circular, arched, rounded corners, curved, pointed, notched, cage or basket, it makes no difference. Special machinery curves all shapes, following exactly the contours of the openings they are to fit and the finished frame is smooth and free of any suggestion of crimp or distortion.

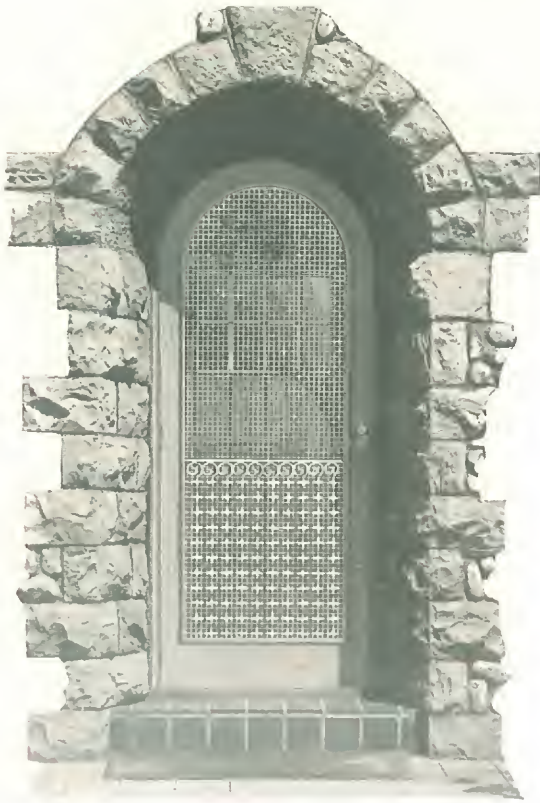
The odd shaped screens shown on this page show a few of the forms we have made. Any curve or shape of opening may be as perfectly fitted. All we need to know is the exact size and shape of the screen desired. It will come exactly the right size and shape to be quickly and properly put in place by the Watson representative.



We frequently fit screens to the contours of columns. This calls for odd shaped frames, difficult ones to build. Yet we fit them perfectly. We welcome the opportunity to make suggestions regarding the difficult screening jobs and to make estimates.



GUARDS AND GRILLES FOR WATSON DOORS



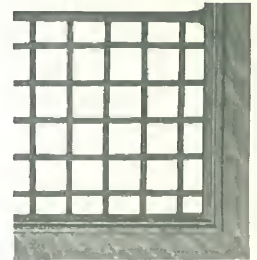
PEOPLE will push against the wire cloth to open a screen door or let it bang against them as they enter. Let the tightly drawn mesh give ever so little and it flaps. A big dog will ruin an unprotected screen door. At service entrances elbows, knees or burdens bulge the cloth.

Guards protect the wire cloth and improve the appearance of a door. Guards are furnished in brass or bronze finished to harmonize with the wire cloth or the hardware of the door or in steel to match the door frame.

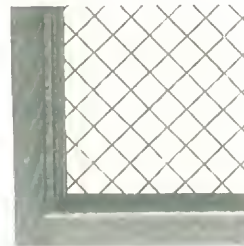
We manufacture ornamental grilles in accordance with architect's specifications and are glad to submit estimates.



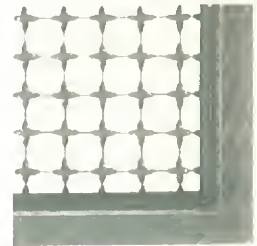
*No. 8A Guard
Quarter twist flat wire with
scrolls and rod*



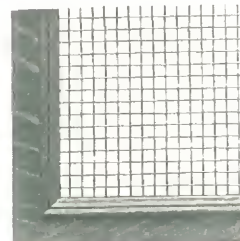
*No. 2 Guard
Flat wire with rod*



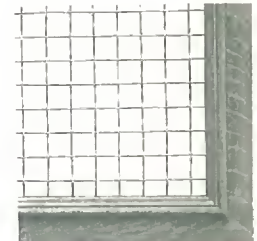
*No. 23 Guard
Diagonal mesh, round wire*



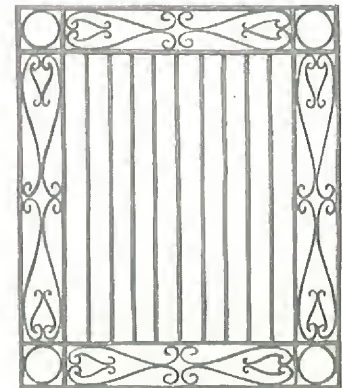
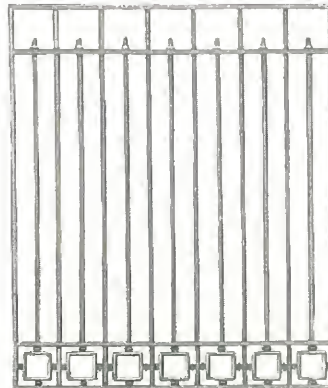
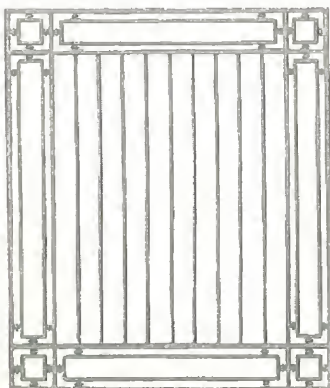
*No. 8 Guard
Quarter twist flat wire*



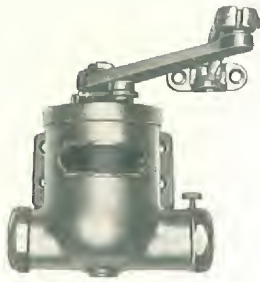
*No. 62 and 66 Guard
Three mesh woven wire*



*No. 12 Guard
Round wire square mesh*



FITTINGS FOR WATSON SCREEN DOORS



*Door Closer
No. 801 Small
No. 802 Large*



*Ball Bearing
Hinge*



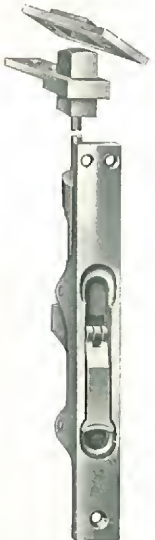
*Plain
Hinge*



*No. 102 Surface
Chain Bolt*



*No. 96
Surface Bottom
Bolt*



*No. 314 and 1119
Flush Bolts*

A GOOD screen door deserves good hinges, locks, bolts, etc. The accessories shown on this page have been chosen because they match the quality of Watson doors. We recommend solid brass or bronze fittings for all outside doors. They do not rust. While the first cost is somewhat higher they more than repay the investment in long and satisfactory service as well as in good appearance. When desired special hardware can be supplied.

DOOR CLOSERS . . . Liquid door checks are a convenience and a protection. They ease a door shut quietly, gently, positively. They treat adult nerves kindly, also doors. They never leave a door ajar, they never slam it, nor will they leave it wide open.

HINGES . . . Hinges are the bearings of a door. They carry the load. Watson hinges are chosen for the weight they must bear, to harmonize with the character of the door they fit as well as for usefulness and durability. It wouldn't be a good door without good hinges as well as good looking ones.

LOCKS . . . Opinions differ regarding the use of locks on screen doors. Where there are children running in and out locks are a nuisance but there are times when a lock on a screen door offers a pleasant sense of security. With some doors we supply locks that respond either to the house master key or to the key to the entrance door; with others, locks that are opened by an individual key. Where screen doors are kept fastened key locks save annoyance and many needless steps.

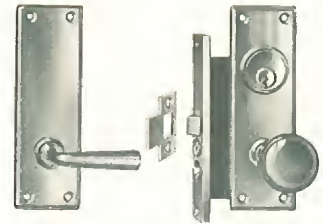
TOP AND BOTTOM BOLTS . . . With double doors top and bottom bolts are necessary. Watson bolts open easily and hold fast. In them as in other hardware they are in keeping with the door for which they are designed.

COIL SPRINGS . . . Many people prefer a coil spring on a screen door and with some doors it is a very satisfactory method of closing the door after forgetful people and children. Watson coil springs are the best the market affords.

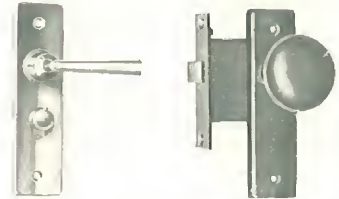
As you will see there is a wide selection of hardware for Watson doors. If you wish to have your doors fitted with special hardware other than that which is standard for the door you choose the Watson representative will gladly advise you.



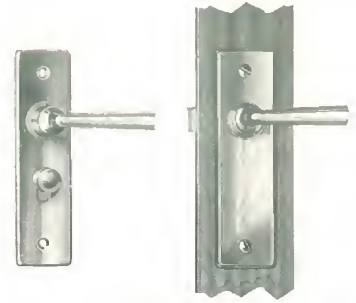
Coiled Spring and Hooks



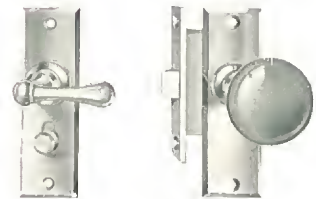
*No. 8 Cylinder
Mortise Lock*



*No. 1300
Mortise Lock*



*No. 1065
Mortise Latch Lever*



*No. 1290
Mortise Latch*



*No. 995
Chain Bolt*



*No. 995
Bottom Bolt*

WATSON WOOD FRAME SCREENS

It takes good material to do a good job. Watson standards start with the selection of the lumber. Every stick that goes into a Watson wood frame screen is carefully selected, straight grained and free from knots. It is cured, seasoned and kiln dried to prevent warping.

Each frame is proportioned to give maximum strength with good appearance and at the same time allow the greatest possible ventilating area.

There are many forms of corner joints and after testing them all, we have adopted the doveled corner as the strongest and stiffest but can furnish any other corner construction desired.

The cope cut doveled corner allows ample glue surface and allows the glue joint to be completely protected from moisture, but with our habit of doing things too well rather than not good enough we use water proof glue. In Watson wood frame screens you get the benefit of forty years experience in the economical manufacture of first grade screens.

The wire cloth is commercial Bronze which is fifty per cent stronger than copper. It is rust proof, never needs paint or other refinishing. Other wire cloth can be used. The wire cloth is drawn to drum head tightness by rattan splines forced into the grooves. The grooves are set well back from the edges of the frame to give them ample strength, no danger of the wood splitting under the tension.

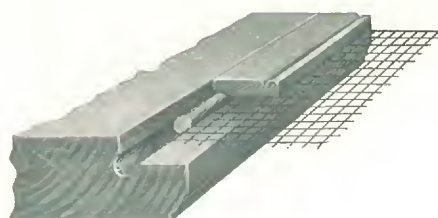
The recessed moulding, fastened with rust proof, brass brads, covers the fastening of the wire cloth and adds greatly to the neat appearance of the screen.

Wood screens are usually of soft pine finished with a first coat of suitable priming paint to seal in the resin; then several coats of tested paints, enamels or lacquers.

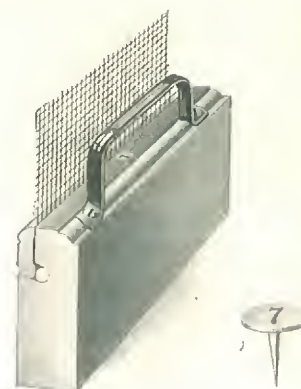
Other soft or hard woods are used and finished with a first coat of the proper stains and fillers followed by durable varnishes or lacquers.

We match your sample of paint or stain.

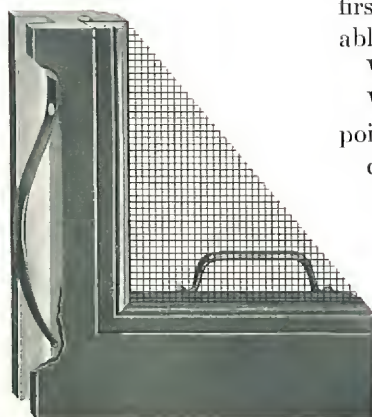
Wood frame screens made with Watson care have many points of superiority over local mill-made screens, and considering that our price includes made-to-measure screens completely finished and installed, we taking all responsibility and you paying only the one price, the cost of Watson screens compares very favorably with the complete cost of local mill-made screens.



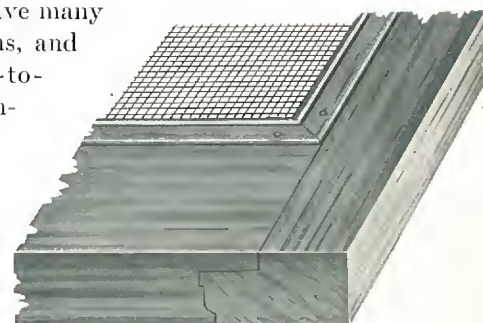
Method of attaching wire cloth



Identification brass numbering tacks to identify each screen with its proper location are supplied in duplicate. One to be placed on the screen, the duplicate on the window frame



Corner of sliding screen with spring and lift



Cope cut doveled corner



CHICAGO, ILLINOIS
JANUARY 1, 1901